

IN THE ABSTRACT

Please delete the current Abstract in its entirety and
substitute therefor the enclosed New Abstract.

NEW ABSTRACT

An optical system includes at least two optical detector units, each optical detector unit including an array of detector segments and corresponding output terminals defining current outputs of the corresponding optical detector unit. At least one current output of a first optical detector unit is connected directly to a corresponding current output of a second optical detector unit at an output node. The optical system further includes a signal processing circuit having its input terminals connected via corresponding lines to corresponding output nodes of the optical detector system. To each of the lines, a corresponding terminator resistor is connected.